

10/031,351

includes the same changes which are indicated on the enclosed marked-up copy of the original specification. Please enter the substitute specification into the record of this case.

In the Claims:

Please amend claims 15, 22 and 23 as follows in which the claim additions are shown by underlining and the claim deletions are shown by strikeout. Please enter the amended claims into the record of this case.

1-14. (CANCELED)

15. (CURRENTLY AMENDED) A calibration method for testing the function of an electrohydraulically controlled automatic transmission comprising the steps of:

simulating a vehicle operation by connecting an input shaft of the transmission with a driving source having preset rotational speeds and load ratios;

connecting an output shaft of the transmission with a stationary torque-measuring hub ~~to block~~ and blocking the output shaft; and

testing a plurality of shifting elements existing in the transmission by providing an input rotational speed to the transmission to supply pressure-setting elements in the transmission with hydraulic pressure sufficient to actuate the shifting elements out of an opened condition to the extent necessary to determine, indicate and store a desired shifting element characteristic.

16. (PREVIOUSLY ADDED) The method according to claim 15, further comprising the step of determining the desired shifting element characteristic according to one of a setting element current corresponding to a point at which the shifting element slips and a point at which the shifting element slip tends toward zero when the shifting element closes.

17. (PREVIOUSLY ADDED) The method according to claim 15, further comprising the step of determining the desired shifting element characteristic according to hysteresis of a current difference between opening and closing of the shifting element.

18. (PREVIOUSLY ADDED) The method according to claim 15, further comprising the step of determining the desired shifting element characteristic according to a slip rotational speed of the shifting element.

19. (PREVIOUSLY ADDED) The method according to claim 15, further comprising the step of determining the desired shifting element characteristic according to a torque transmitted to the torque measuring hub.

20. (PREVIOUSLY ADDED) The method according to claim 15, further comprising the step of determining the desired shifting element characteristic according to a time needed to shift a shifting element into positive engagement.

21. (PREVIOUSLY ADDED) The method according to claim 15, further comprising the step of testing each of the plurality of shifting elements successively and maintaining each of the shifting elements in a closed condition after testing.

22. (CURRENTLY AMENDED) A calibration method for testing the function of an electrohydraulically controlled automatic transmission comprising the steps of:

simulating a vehicle operation by connecting an input shaft of the transmission with a driving source having preset rotational speeds and load ratios;

connecting an output shaft of the transmission with a separate stationary torque-transmitting hub ~~to block~~ and blocking the output shaft;

testing a plurality of shifting elements existing in the transmission by providing an input rotational speed to the transmission to supply pressure-setting elements in the transmission with hydraulic pressure sufficient to actuate the shifting elements out of an opened condition to the extent necessary to determine, indicate and store a desired shifting element characteristic; and

testing each of the plurality of shifting elements successively and maintaining each of the shifting elements in a closed condition after testing.

23. (CURRENTLY AMENDED) The method according to claim 22, further comprising the step of determining the desired shifting element characteristic according to one of a setting element current corresponding to one of a point at which the shifting element slips and a point at which the shifting element slip tends toward zero when the shifting element closes.

24. (PREVIOUSLY ADDED) The method according to claim 22, further comprising the step of determining the desired shifting element characteristic according to hysteresis of a current difference between opening and closing of the shifting element.

25. (PREVIOUSLY ADDED) The method according to claim 22, further comprising the step of determining the desired shifting element characteristic according to a slip rotational speed of the shifting element.

26. (PREVIOUSLY ADDED) The method according to claim 22, further comprising the step of determining the desired shifting element characteristic according to a torque transmitted to the torque measuring hub.

27. (PREVIOUSLY ADDED) The method according to claim 22, further comprising the step of determining the desired shifting element characteristic according to a time needed to shift a shifting element into positive engagement.